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OFFICE OF THE DEAN

STATE UNIVERSITY OF NEW YORK
COLLEGE FOR TEACHERS, BUFFALO
SUMMER SESSION BULLETIN 1959

1959 SUMMER SESSION CALENDAR

- June 18 (Thursday) Registration for Intersession Workshops in Industrial Arts Education
- June 29 (Monday) Registration for Six Weeks Session
Morning 8:00-12:00 Graduate Students
Afternoon 1:00-4:00 Undergraduate Students
- June 30 (Tuesday) Classes begin for six and eight weeks sessions
- July 3 (Friday) Last Day for Change in Course Registrations
- July 9 (Thursday) 11:00 A.M. Convocation
Dr. Roma Gans, Professor of Education,
Teachers College Columbia University
- July 30 (Thursday) 9:30 A.M. Convocation
Dr. A. W. Blair, Dean, School of Education,
North Texas State College
- August 7 (Friday) Six weeks session ends
- August 10 (Monday) Registration for Post Session Courses
- August 21 (Friday) All classes and workshops end

SPECIAL SESSIONS

- Art in Europe.....June 29-Sept. 7
- Television Technology Workshop.....June 18-June 29
- Workshop in Welding.....June 18-June 29
- Field Experience in Home Economics Education....June 29-Aug. 7
- Refresher Conference for Home Economics Teachers
July 6-July 9
- Workshop in Human Growth and Development....July 20-Aug. 7
- Regional Study in Science.....Aug. 9-Aug. 20
- Seminar-Tour in American Literature.....Aug. 10-Aug. 21
- Workshop in Methods and Materials in Social Studies
Aug. 10-Aug. 21
- Graduate Studio in Graphic Arts.....Aug. 10-Aug. 21

Cover designed by ROLAND WISE

State University of New York COLLEGE FOR TEACHERS

BUFFALO

BULLETIN

Volume XXVII

Number 3

1959 SUMMER SESSION

Buffalo, New York

April, 1959

One of four publications issued four times yearly: March, April, August, and October by State University of New York College for Teachers, Buffalo 22, New York.

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STATE UNIVERSITY OF NEW YORK

The State University of New York was established by the State Legislature in 1948. It comprises forty-three colleges. Twenty-eight of them are State colleges and fifteen are locally-sponsored community colleges. Although separated geographically, all are united in the purpose to improve and extend opportunities for youth to continue their education after high school.

State University offers cultural and professional four-year programs in liberal arts, science and engineering, home economics, industrial and labor relations, veterinary medicine, ceramics, agriculture, forestry, maritime service, medicine, and teacher preparation, as well as two-year programs in a wide variety of fields, including technical courses in agricultural, industrial, health, and service areas. Several of its colleges offer graduate programs.

Governed by a Board of Trustees appointed by the Governor, State University of New York plans for the total development of State-supported higher education. Each college of State University is locally administered. Students should write directly to the institution in which they are interested for admission forms.

Although State University of New York is the second largest state university in the country, its students have the additional advantages of attending relatively small colleges.

The State University motto is: "Let Each Become All He Is Capable of Being."

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THE COLLEGE

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 Dorothy E. Eells, A.B., M.A. *Registrar*
 Morton R. Lane, B.S. *Senior Financial Secretary*

* Effective July 1, 1959.

VISITING FACULTY

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 North Texas State College
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 East Aurora, New York
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 Principal, Main Street Elementary School
 East Aurora, New York
 Máire Kerr, M.A. *Visiting Assistant Professor of Education*
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 Harpur College, Endicott, New York

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D. Kenneth Winebrenner, Ed.D. *Professor of Art*

Roland Wise, M.A. *Assistant Professor of Art*

L. Stanley Zielinski, B.F.A. *Assistant Professor of Industrial Arts*

LOCATION OF THE COLLEGE

Buffalo, the Queen City of the Lakes, is an ideal location for a summer school. The climate, tempered by westerly winds from Lake Erie, is usually cooler and more comfortable than that of any other Eastern city.

Buffalo is easily accessible by bus, train, air, or automobile; the College can be reached easily by bus or taxicab within the city. Across the street from the College are the Albright Art Gallery and the Buffalo Historical Museum, imposing works of architecture. Across Elmwood Avenue from the College is Delaware Park, a large municipal recreation center with a lake, golf course, bridle path, tennis courts and baseball diamonds. One of the finest concert halls in the world, the Kleinhans Music Hall, and a nationally famous symphony orchestra, the Buffalo Philharmonic, serve those who enjoy fine music. Several nearby summer theatres, operated by professional and semi-professional groups, produce plays throughout the summer.

ADMISSION TO SUMMER SESSION

Undergraduate

The Summer Session is open to anyone qualified for teaching, and students attending the College for Teachers at Buffalo or any other accredited college.

1. An undergraduate student now in regular attendance at the College must have written permission from the director of his division to register.

2. An undergraduate student who has not previously registered at this College should request permission from the Director of Summer Session in advance of registration.

A student registered at another college is advised to have his proposed summer program approved by the proper official of the college he regularly attends.

Admission to the Summer Session does not constitute admission to the Regular Session. Consult the General Catalog or write to the Director of Admissions for information and application forms.

To enter the accelerated program a student must have the approval of the Director of the Elementary Education Division or the Industrial Arts Division.

Graduate

1. A student seeking admission to the Graduate Division should secure application blanks from Dr. Robert E. Albright, Director of the Graduate Division.

2. A graduate student working for certification and not expecting to become a degree candidate, or wishing to transfer credit to another institution, may be admitted as a special student upon completion of the graduate application blank.

However, admission as a special student does not constitute admission to any curriculum of the Graduate Division. Such special students may be admitted to full graduate status by meeting all requirements and completing all procedures outlined in the General Catalog.

FEES

The State University of New York has authorized the collection of Summer Session fees, at a uniform rate, by all the Teachers Colleges of this state. The schedule for the fees of the 1959 Summer Session is as follows:

Tuition

Undergraduate residents..\$15.00 a Semester hour credit

Undergraduate, out-of-state\$15.00 a Semester hour credit

Graduate, all students....\$15.00 a Semester hour credit

College Fees\$ 1.75 a credit hour, maximum \$10.00

Student Activity Tax.....\$ 2.00 a student

Late Registration charge.....\$ 1.00 a day to a maximum of \$3.00

All students enrolled in special programs (on-campus or off-campus) pay the College Fee of \$1.75 a credit hour. All students taking on-campus courses, regardless of their duration, pay the Student Activity Tax of \$2.00. Students enrolled in the eight-weeks Accelerated Program pay no tuition fee but must pay the College Fee and the Student Activity Tax.

Additional charges are levied against students taking some off-campus field courses, tours and camps, as indicated in the separate descriptions of these features.

Refunds will be made in full to students who withdraw during

the first five scheduled days of the session. No refunds will be made after this period unless withdrawal is for entering military service.

All charges are subject to change without notice.

Supervising teachers who are entitled to reductions in fees should obtain a statement of such waiver from their college supervisor and present it at the time of fee payment.

FINANCIAL ARRANGEMENTS

College bills may be paid by check made payable to: State University College for Teachers, Buffalo.

All fees are payable on the day of registration.

VETERANS

Students expecting to file for Veterans Administration benefits should complete all arrangements in the Office of the Dean of Students, Room 103, Administration Building.

SCHEDULE

Classes meet daily except Saturday.

First Period 8:00- 9:20

Second Period 9:30-10:50

Third Period 11:00-12:20

Fourth Period 12:30- 1:50

Fifth Period 2:00- 3:20

All classes will meet Monday through Friday except as otherwise indicated.

RESIDENCE HALLS

Rooms for men and women students are provided in the Residence Halls of the College. Most rooms have accommodations for two persons at \$6.50 a week; a few single rooms are available at \$9.00 a week. Rooms are equipped with beds, desks, chairs, closets, and dressers. Students are expected to provide sheets, pillows and cases, blankets, and desk lamps.

Residence Halls are connected with the Student Union which is

equipped with a lounge, music room, snack bar, dining room, game room, and outdoor recreational area. The Union provides a recreational program for all Summer Session students, especially for those living in the Residence Halls.

Reservations for rooms for men and women students are made through the Office of the Dean of Students. All student residences must be approved by the Dean of Students.

STUDENT HEALTH SERVICE

The Health Office, Administration Building Room 112, will be open daily from 8:15 to 3:15. Emergency, first aid and health counseling services will be available. Any student registered in the Summer Session may avail himself of these services.

LIBRARY FACILITIES

A collection of more than 67,000 volumes and more than 500 current periodicals is accessible in the Edward H. Butler Library. The Reference Reading Room, the Reserve Book Room, and the Recreational Reading Room afford areas for study and cultural reading by individuals or groups. Recordings on musical and non-musical subjects are available for music appreciation, speech classes, and recreational listening. The microfilm editions of the *New York Times* and the *Buffalo Evening News*, periodicals and doctoral dissertations, are available for reading with the necessary specialized equipment. Additional books and materials from the State Library at Albany are secured through inter-library loans. Special exhibits featuring topics of general interest to the college community are prepared by the faculty, students, and the library staff.

Summer Session students may use the resources of the Laboratory of Instructional Material, consisting of story books, elementary school textbooks, pamphlets, slides, records, filmstrips, and pictures.

The Campus School Library in the Campus School contains a collection of books, magazines, recordings and filmstrips especially selected for children.

The Erie County Library (including the Buffalo Public Library and the Grosvenor Library), the Library of the Albright Art Gallery, the Library of the Historical Museum, and the Library of the Museum of Science, supplement facilities available on the campus.

SPECIAL FEATURES

The College Summer Session offers varied educational experiences in addition to regular classroom activities. Some of these are:

Activities Program

By providing social, cultural and recreational experiences, the Summer Session Activities Program complements the offerings of the academic day. Special convocations feature outstanding speakers and dramatic or musical productions. Forums, informal seminars, exhibits, demonstrations and new educational films are integrated with course emphasis. Tours are organized to the Stratford, Ontario Shakespeare Festival. Various historical, scenic and industrial points of interest of the Niagara Frontier may also be visited. Informal social activities have their focus in the College Union and include the annual summer Cotillion, as well as relaxing music listening hours, teas, and films of current interest. Weekly morning coffee hours in the Quadrangle are especially popular with students who find this break between classes an opportunity to relax with their friends. Various recreational opportunities will be made available according to student interest. The Summer Session Activities Program is developed by the Summer Session Activities Board, a student-faculty committee under the supervision of the Office of the Dean of Students. The Summer Session Activities Board secretary is available at all times for help and information in Administration Room 103.

Art in Europe June 29-September 7

In cooperation with the State University of New York and the Experiment in International Living, this college is sponsoring an art study-tour in Europe. This year students will be living with German families in Munich for three weeks and a ten day academic period will be spent in Florence. Works of art will be studied in other cities including Paris, Rome, and Amsterdam. Eight semester hours of graduate and undergraduate credit can be earned. Further information may be obtained from Dr. Clement Tetkowski at the College.

Television Technology Workshop June 18-June 29

This workshop is designed for junior and senior high school Industrial Arts teachers who feel a need for fundamental knowledge

and practical experience in working with television equipment. A circuit by circuit analysis of television technology together with the study and use of specialized laboratory equipment characterizes the major emphasis of the workshop.

A unique feature of the workshop entails a series of dynamic mock-up demonstrations presented by guest lecturers from leading companies in the electronics industry. In addition, representative of the major test instrument manufacturers will demonstrate the operation and actual use of laboratory test instruments; such as, oscilloscope, sweep generator, marker generator, sweep analyzers, VTVM, and other specialized laboratory and test equipment. Two semester hours of graduate credit.

Welding Workshop June 18-June 29

An intensive workshop course giving welding experiences in gas and electric welding of the common metals. The related areas will consist of the study of the physical and mechanical properties of metals, elementary metallurgy, and the study of the effects of high temperatures on metal fusibility. Flame cutting, hard surfacing, flame hardening, bronze welding, brazing and silver soldering are techniques to be acquired.

Metals identification, inspection and testing of welds will be required. The latest industrial techniques of powder cutting, inert gas welding, and induction welding will be discussed and studied. Two semester hours of graduate credit.

Refresher Conference for Homemaking Teachers

The 1959 Refresher Conference for Homemaking Teachers will be held on the campus July 6, 7, and 8. The annual Refresher Conference is sponsored cooperatively by the Bureau of Home Economics Education, State Education Department, and the Home Economics Division.

The theme of the conference is "Homemaking Education for Today and the Future". Some topics for discussion will be: (1) What are the changes in our society that are affecting family life? (2) How are these changes affecting pupils? How to identify changes in the local community that should be considered in planning curriculum. (4) How can the Homemaking program meet these changes effectively? The registration fee will be \$3.00. For further information write to Mrs. Edith F. Douglas at the College.

Field Experience in Home Economics Education June 29-August 7

In cooperation with the Bureau of Home Economics Education of the State Education Department, the Home Economics Education Division of the College is offering a workshop for homemaking teachers in the public schools of New York State during the 1959 Summer Session.

The six weeks workshop will be organized as follows: *First week*—the entire group will meet daily on campus to develop plans to be carried out by the teachers in their respective communities. *Second and third weeks*—the college staff members will visit teachers in their respective communities to supervise their work and to assist them in carrying forward their goals. *Fourth and fifth weeks*—the first three days of each week will be spent in visitation of teachers in their communities. The last two days of each week will be spent on campus to assist teachers in analyzing and evaluating their work.

Two graduate credit hours will be granted by the college provided the teacher meets the entrance requirements. Each teacher may receive graduate credit only once for this workshop. Further information may be obtained from the Bureau of Home Economics, State Education Department in Albany, or Dr. Margaret Barkley at the College.

Workshop in the Teaching of Spanish in the Elementary Grades

June 29-August 7

In response to the growing enthusiasm for enriching the curriculum of the early school years by the introduction of a foreign language the College will this summer conduct a workshop in the teaching of Spanish. Those taking the course will have an opportunity to improve their own mastery of the language as well as to learn how to use Spanish in the classroom with children in the elementary grades.

It is assumed that registrants will have sufficient mastery of the language to enable them to spend most of their time studying the theory and practice of its use with younger children. Classes in several grades of the Summer Campus School will provide opportunities for practice-teaching and observation.

Workshop in Human Growth and Development July 20-August 7

Various aspects of Growth and Development as related to school experiences and personality development will be studied. Specific areas to be explored will be arrived at by joint planning of Consultant,

Instructor, and Participants. Projects, activities and evaluation to evolve from the needs of the workshop participants. Three semester hours of graduate credit. Enrollment limited.

Dr. A. W. Blair, Dean, School of Education, North Texas State College, Consultant.

Dr. Anna Martorana, Professor of Education, College for Teachers, Buffalo, Instructor.

Campus School

A Campus School Program with children from kindergarten through grade six is an integral part of the Summer Session program. This type of school experience affords enrichment for the children who attend and provides an opportunity for Summer Session students to work with pupils under the supervision of master teachers.

The Intensive Teacher Training Program

The College, in cooperation with the State University, has planned a special program for graduates of Liberal Arts Colleges enabling them to gain the professional background and preparation necessary for permanent certification for teaching in the elementary schools and to qualify for the Master of Science degree.

Those beginning this program should enroll for the Workshop in Elementary Education, EL.Ed. 500As. The hours extend from 8:00 A.M. to 4:00 P.M., with individual conferences in the afternoon. The students will be divided into seminar groups, under the guidance of an experienced elementary teacher. Provision is made for observation and participation in the Campus School from kindergarten through grade six. Classroom management and instructional methods are emphasized.

Eight semester hours of graduate credit may be earned. Fees are charged according to regular rates. Those desiring to register should file an application with the Director of the Graduate Division.

Liberal Arts graduates who have previously registered and completed the Workshop will find a sequential offering among the Graduate courses.

Folk Arts

Growing interest in the cultural life of other peoples has given impetus to a course the College will offer this summer in the Folk Arts. Many teachers have found that the customs, costumes, songs, dances,

and crafts of various ethnic groups provide excellent resource material for classroom use.

Students will be given an insight to a variety of forms of self-expression used by various peoples of the world. Major emphasis will be given those national groups which are significant in the culture of the Buffalo area.

Although the workshop will provide personal pleasure for the students participating, it is also designed to enable a teacher to use the folk-arts material in her own classroom.

Further information may be obtained from Dr. Stanley Czurlies at the College.

Post-Session Courses August 10-August 21

The College will conduct its usual program of short courses during the post-session period from August 10 through 21. In addition to the Regional Study in Science and the Seminar-tour in American Literature, there also will be given concentrated courses in Graphic Arts and Methods and Materials in the Teaching of Social Studies. Two credits, graduate or undergraduate may be earned in any one of these courses. Detailed descriptions may be found under the academic department concerned.

Regional Study in Science August 9-August 20

The Eighth Science Camp, sponsored by the Science Department, will be held at Allegany State Park during the two weeks immediately following Summer Session, August 9 to 20, inclusive.

Any elementary school teacher or principal may enroll. Both graduate and undergraduate students are eligible.

Activities will include: learning to recognize wild flowers, birds, trees, insects, mosses, ferns, etc.; studying the habitats of various forms of life; and studying the rock formations and fossils of the region. Instruction is in the field, weather permitting. All work will be closely related to the elementary school and to the interests of individual teachers. Several evening sessions are planned with consultants in conservation, nature study and wildlife management.

Facilities include: 20 cabins, a large recreation building with fireplace, separate dining room, shower rooms with hot and cold running water, and telephone. A post office, ranger station, and telephone are located nearby. Food will be plentiful, tasty, and well-balanced.

Total cost, including tuition, room, board and laboratory charges will be about \$90.00. Enrollment will be limited to fifty students.

Seminar-Tour in American Literature August 10-August 21

A study of major American writers before 1900. Particular writings selected for study will be associated with locales to be visited. Particular places to be visited include the home of Emerson, Hawthorne, Longfellow, Whittier, Louisa Alcott, Paul Revere, and John Adams; also Thoreau's Walden Pond, Bunker Hill, the battle ground of Concord and Lexington, Harvard University, "Old Ironsides", Old North Church, and many other famous landmarks in and about Boston. One day will be spent in an excursion by boat to Provincetown, Cape Cod. Two semester hours credit, graduate or undergraduate. Further information may be obtained from Dr. Benjamin F. Gronewold at the College.

ACADEMIC INFORMATION

Standards and Regulations

The academic standards and regulations observed during the regular college year prevail in the Summer Session. Please refer to General Catalog of the College.

Grades

The standard system used to evaluate student performance, described in the General Catalog, will be followed in the Summer Session.

The Registrar's office will furnish final grades by mail to the student's home address at the close of the Summer Session.

Transcripts

Students who want copies of their academic record sent to another institution should file a request form for this service in the Registrar's office, Administration 102. No fee is charged for the first copy of a transcript.

Cancellations and Changes

The College reserves the right to cancel any course for which there is insufficient registration, to substitute a different instructor, and to change the time of class meetings.

CURRICULA

During the Summer Session a wide range of professional, technical, and cultural courses are available to meet degree and certification requirements. In each of the areas listed below the college offers programs of study leading to the degree *Master of Science in Education*.

1. Art Education
2. Early Secondary Certification
3. Elementary Education
4. Exceptional Children Education
5. Home Economics
6. Industrial Arts
7. Elementary Principalship and Supervision
8. Intensive Teacher Training Program

Graduate students may also enroll as Special Students in the Graduate Extension Division for the purpose of completing requirements for certification or In-Service-Training.

Programs of study leading to the degree *Bachelor of Science in Education* are offered in Art Education, Early Childhood Education, Elementary Education, Early Secondary Education, Secondary Education, Exceptional Children Education, Home Economics, and Industrial Arts.

Detailed descriptions of curricula and degree requirements may be found in the General Catalog.

Class Load

A full-time academic load during the six weeks summer session is six semester hours. Undergraduate students may be permitted to carry additional hours with the written approval of their Division Director.

Course Descriptions

All courses are listed alphabetically by departments and catalog number. Courses numbered 500 and above are graduate courses, 400 to 499 are senior courses; 300 to 399 junior courses, 200 to 299 sophomore courses, and 100 to 199 freshman courses.

Unless otherwise specified, courses meet daily for six weeks, from June 29 through August 7.

ART EDUCATION

Undergraduate

ART 290s. PHOTOGRAPHY. Photography as a communications art; the making of documentary, pictorial, and creative compositions in black-and-white, in color, and in combination with other communication media; exploration of photographic processes and their use in self-expression and educational activities. Elective for all students except Art Education majors.

Credit: three semester hours.

Bailey 12:30-3:20

ART 361s. STUDIO IN GRAPHIC ARTS I. Lithography, wood engraving, etching, serigraphy, dry point, engraving. Elective for Art Education juniors and seniors.

Credit: two semester hours.

Green August 10-21

ART 400s. WORKSHOP IN CRAFTS I. Creative experiences in a variety of crafts such as leather, metal, ceramics, and jewelry; individual projects. Elective for all students except Art Education majors. (This course may be taken for two semester hours by permission of instructor.)

Credit: three semester hours.

Hubler 8:00-10:50

ART 406s. CREATIVE ART WORKSHOP. Activities and art materials suitable for the elementary grades; individual experiment in various media; watercolor, powder paint, finger paint, tempera, inks, dyes, crayons, paper, cardboard, wood, cloth, soap, clay, plaster, rubber, plastics, wire, thin metals, yarn and other materials. Elective for all students except Art Education majors.

Credit: three semester hours.

Lindemann 11:00-12:20

ART 408s. PAINTING I. Individual election of activities using various painting media including oil, watercolor, gouache, and tempera. Elective for all students except Art Education majors. (This course may be taken for two semester hours by permission of instructor.)

Credit: three semester hours.

Dakin 12:30-3:20

ART 483s. WORKSHOP IN THE FOLK ARTS. Folk arts of music, dance, drama, arts and crafts, and folk lore of other countries; their relationship to history and geography of the countries, and their relationship to the American culture. Resource materials and organization of folk art studies in elementary and secondary schools, and in community activities.

Credit: three semester hours.

Schrader 8:00-9:20

Graduate

ART 505s. SEMINAR IN ART EDUCATION. Problems and projects in teaching and supervising art in various types of communities and schools; contemporary philosophy, psychology, principles, and practices in art and general education; research and scientific methods in determining programs, policies, and procedures for the art teacher and supervisor. Required of all Art Education majors. Prerequisite: one or more years of teaching.

Credit: three semester hours.

Lofgren 11:00-12:20

ART 507s. GRADUATE STUDIO IN DRAWING, PAINTING. Individual activities with a variety of drawing and painting media determined for each individual according to his background and needs; studio and outdoor problems, field and gallery trips. (This course may be taken for two semester hours by permission of instructor.)

Credit: three semester hours.

Dakin 12:30-3:20

ART 508s. GRADUATE STUDIO IN DESIGN AND SPATIAL ORGANIZATION. Individualized designing with paint and materials; specialization may be in home planning and furnishing, costume, textile, stage, commercial or industrial design.

Credit: three semester hours.

Bolinsky 8:00-10:50

ART 509s. GRADUATE STUDIO IN CRAFTS. Individualized work in textiles, jewelry, leather, woodcarving, sculpture, plastics, pottery, and metal.

Credit: three semester hours.

Winebrenner 12:30-3:20

ART 511s. ART IN THE ELEMENTARY CURRICULUM. The use of art materials, processes, and procedures in the elementary school; developing creative and expressive activities of children.

Credit: three semester hours.

Hill 11:00-12:20

ART 513s. GRADUATE STUDIO IN GRAPHIC ARTS. Individualized work in lithography, wood engraving, etching, serigraphy, dry point, engraving.

Credit: two semester hours.

Green August 10-21

ART 514s. WORKSHOP IN THE FOLK ARTS. Folk arts of music, dance, drama, arts and crafts, and folk lore of other countries; their relationship to history and geography of the countries, and their relationship to the American culture. Resource materials and organization of folk art studies in elementary and secondary schools, and in community activities.

Credit: three semester hours.

Schrader 8:00-9:20

ART 516s. GRADUATE STUDIO IN ADVERTISING AND ILLUSTRATION. Development of explicit communications in illustration and design using realistic, experimental, and expressive approaches; preparation of art work for illustration, reproduction, and publication in magazines, newspapers or books; investigation of materials and techniques in black and white, color, line and tone, particularly suited to reproduction standards.

Credit: three semester hours.

Wise 8:00-10:50

ART 517s. HISTORIC AND CONTEMPORARY ART IN EUROPE. Architecture, painting, sculpture, crafts, and city planning in Germany, France, Austria, Italy, the Netherlands and Belgium; given in conjunction with the Experiment in International Living; to include three weeks in residence with a European family.

Credit: eight semester hours.

Tetkowski June 29-September 7

ARTS AND SCIENCES

ENGLISH

Undergraduate

ENG. 250s. TYPES OF BRITISH AND AMERICAN LITERATURE I. Poems and plays in English; readings, analysis and criticism, history. Required of Elementary Education sophomores.

Credit: three semester hours.

Cochnowar 9:30-10:50

ENG. 304s. AMERICAN LITERATURE. Major writers and literary movements of the United States from the Colonial Period to recent times. Required of Elementary Education and Industrial Arts juniors.

Credit: three semester hours.

Fried 9:30-10:50

ENG. 402s. CONTEMPORARY LITERATURE. British and American literature of the twentieth century; poetry, the novel, the drama.

Credit: three semester hours.

Ganey 8:00-9:20

ENG. 413s. SEMINAR-TOUR IN AMERICAN LITERATURE. Study of major American writers before 1900 including a tour of locales associated with their lives and work.

Credit: two semester hours.

Gronewold August 10-21

ENG. 420s. ORAL INTERPRETATION OF LITERATURE. Oral reading of prose, poetry, and drama; selection and arrangement of material for formal and informal audiences. Elective for sophomores, juniors, and seniors.

Credit: three semester hours.

Goossen 11:00-12:20

ENG. 451s. TYPES OF BRITISH AND AMERICAN LITERATURE II. Essays, biographies, and fiction in English, readings, analysis and criticism, history. Required of Elementary Education juniors or seniors.

Credit: three semester hours.

Bradford 12:30-1:50

Graduate

ENG. 506s. STUDIES IN THE MODERN DRAMA. Renascence of drama in Europe and America: Ibsen and the play of ideas; realism, naturalism, symbolism, sociological drama.

Credit: three semester hours.

Goossen 9:30-10:50

ENG. 511As. STUDIES IN THE POETRY OF THE VICTORIAN PERIOD. Major Victorian poets, with emphasis on Tennyson and Browning; social, political, and intellectual background of the times.

Credit: three semester hours.

Bradford 11:00-12:20

ENG. 513s. SEMINAR-TOUR IN AMERICAN LITERATURE. Study of major American writers before 1900 including a tour of locales associated with their lives and work.

Credit: two semester hours.

Gronewold August 10-21

ENG. 514s. CHILDREN'S LITERATURE. Types of children's literature; criteria of book selection; reading interests of children; preparation of bibliography.

Credit: three semester hours.

Ganey 11:00-12:20

ENG. 524s. REALISM IN AMERICAN LITERATURE. Realistic writers of the late nineteenth century: Howells, James, Clemens, Crane, Norris, and others.

Credit: three semester hours.

Fried 8:00-9:20

ENG. 532s. LITERARY CRITICISM. A survey of literary criticism past and present, with exercises in applying the student's critical skill to the study of specific works; individual student emphasis upon the study of a period, author, idea, or literary form. Prerequisites: 20 credit hours in English or English-related General Studies courses, or in occasional instances, course work and experience considered by the instructor to be the equivalent of 20 hours in English.

Credit: three semester hours.

Cochnower 12:30-1:50

FOREIGN LANGUAGE

Undergraduate

FR. 201s. INTERMEDIATE FRENCH. Reading of short stories, longer prose narrative, plays and selected poems; grammar review and composition. Prerequisite: at least two years of high school French or completion of French 101, 102.

Credit: three semester hours.

Messner 9:30-10:50

FR. 402s. FRENCH COMPOSITION AND CONVERSATION. Daily practice in writing and speaking French. Prerequisites: Fr. 201 and 202.

Credit: three semester hours.

Messner 11:00-12:20

SP. 201s. INTERMEDIATE SPANISH. Reading of modern Spanish and Spanish-American authors in the fields of the novel, short story and drama; vocabulary study. Prerequisite: at least two years of high school Spanish or completion of Spanish 101, 102.

Credit: three semester hours.

Simonette 8:00-9:20

Graduate

ED. 539s. WORKSHOP IN THE TEACHING OF SPANISH IN THE ELEMENTARY GRADES. Spanish conversation, Spanish civilization, observation and participation in a Spanish demonstration class in Summer Campus School. Open to graduates and qualified undergraduates with the consent of the director.

Credit: three semester hours.

Simonette 9:30-12:20

GEOGRAPHY

Undergraduate

GEOG. 301s. GENERAL GEOGRAPHY I. First half of world geography: the low latitudes, the high latitudes, the arid and semi-arid regions of intermediate latitudes; physical environment, cultural and economic geography of each area; interpretation of maps.

Credit: three semester hours.

Section A

Redden 8:00-9:20

Section B

Redden 11:00-12:20

GEOG. 402s. GENERAL GEOGRAPHY II. Second half of world geography; regions of intermediate latitudes: physical backgrounds; mining, manufacturing, trade, transportation and agriculture; interdependence of regions; distribution of world population. Required of Elementary Education seniors.

Credit: three semester hours.

VanRiper 9:30-10:50

Graduate

GEOG. 503s. STUDIES IN RESOURCE CONSERVATION. Principles of conservation of natural resources; selected problems such as soil erosion in Western New York, pollution on the Erie-Niagara Watershed, Great Lakes fisheries, flood control and stream improvement, management of farm woodlands, the New York State Forest Preserve, recreational resources and wildlife management programs in Western New York.

Credit: three semester hours.

Eckert 9:30-10:50

GEOG. 504s. STUDIES IN THE GEOGRAPHY OF NORTH AMERICA. Utilization of mineral, water, and forest resources; geography of agriculture, manufacturing, transportation, recreation, hemisphere defense, power production; selected topics pertaining to recent changes and current developments.

Credit: three semester hours.

VanRiper 12:30-1:50

HEALTH AND PHYSICAL EDUCATION

Undergraduate

P.ED. 301s. PHYSICAL EDUCATION. Principles of physical education; physical education in the elementary school; teaching motor skills; fundamental play, relays, lead-up games; rhythms, stunts and classroom games; selection of activities; safety in physical education. Required of Elementary Education and Exceptional Children Education juniors. Classes meet everyday except Monday.

Credit: two semester hours.

Spaulding 8:00-9:20

P.ED. 304s. COACHING II. Coaching of basketball and baseball. Special methods and techniques for coaching, officiating and conducting games in basketball and baseball. Emphasis given individual fundamental techniques, team strategy, practice plans, contemporary systems, and treatment of injuries. Elective for men. Sophomore standing and consent of instructor.

Credit: three semester hours.

Katzman 11:00-12:20

H.ED. 402s. HEALTH PROTECTION. School and community health problems; school health service; communicable disease control; water supply and sewage disposal; food sanitation; safety education. Required for Elementary Education seniors. Classes meet everyday except Monday.

Credit: two semester hours.

Spaulding 9:30-10:50

MATHEMATICS

Graduate

MATH. 500s. MATHEMATICS IN THE ELEMENTARY CURRICULUM. Development of number; rationale of processes; relationships; generalizations; meaning and significance of number and processes; mathematics as a language; measurement; problem solving; visual aids; professional literature; analyses and reports of readings; individual research and project.

Credit: three semester hours.

Ebert 8:00-9:20

MATH. 506s. HISTORY OF MATHEMATICS. Chronological study of the development of elementary mathematics; national achievements of ages or periods; selected biographies; appraisals and critiques; problem studies. Prerequisites: Foundations of Mathematics.

Credit: three semester hours.

Ebert 9:30-10:50

MUSIC

Undergraduate

MUS. 304s. MUSIC FOR CHILDREN I. Music experiences for the nursery, kindergarten, and primary grades; activities: singing, rhythms, listening, creating, playing and making instruments, song stories, broad use of all types of materials and equipment. Elective for sophomores, juniors, and seniors. Classes meet everyday except Friday.

Credit: two semester hours.

Bailey 9:30-10:50

Graduate

MUS. 500s. MUSIC IN EDUCATION. Public school music education; contributions of various composers to public school music and to general culture; required attendance at concerts; observation in the Campus School.

Credit: three semester hours.

Boyd 8:00-9:20

SCIENCE

Undergraduate

BI. 302s. ZOOLOGY. Morphology, physiology, adaptation, reproduction, genetics and ecology of animals. Lectures, demonstrations, laboratory work. Prerequisite: Bi. 101-102; otherwise, by permission of the instructor.

Credit: three semester hours.

Sengbusch 9:30-10:50

SCI. 310s. SCIENCE IN THE ELEMENTARY GRADES. Background and function of elementary school science together with its subject matter; demonstrations, experiments, visual and other materials used in elementary school science. Required of juniors in the Elementary School Science Sequence and elective for other Elementary Education juniors, and seniors. Other classes and departments by arrangement with instructor. Prerequisite: Bi. 101-102, G.S. 203-204, or their equivalent.

Credit: three semester hours.

Sengbusch 8:00-9:20

SCI. 410s. FIELD STUDIES IN SCIENCE I. Biological and geological field work; selected field studies, both group and individual; intensive studies of one or more areas. Elective.

Credit: three semester hours.

Eckert 8:00-9:20

SCI. 421s. HUMAN ANATOMY AND PHYSIOLOGY. Structure and function of the human body, including metabolism, nutrition, and disease.

Credit: three semester hours.

Dupre 11:00-12:20

SCI. 425s. REGIONAL STUDY IN SCIENCE. Field work at Allegany State Park; out-of-doors science for the teacher; identification of wild flowers, trees, birds, insects, and other living things; relationships between living things and their environment; geology of the Park, and of western New York.

Credit: two semester hours.

Urban August 9-20

Graduate

SCI. 500s. SCIENCE IN THE ELEMENTARY CURRICULUM. Background, purposes and present scope of science in the elementary schools; professional review of subject matter with demonstrations, experiments, audio-visual aids, readings.

Credit: three semester hours.

Urban 9:30-10:50

SCI. 501s. FIELD STUDIES IN SCIENCE I. Biological and geological field work; selected field studies, both group and individual; intensive studies of one or more areas.

Credit: three semester hours.

Eckert 8:00-9:20

SCI. 502s. FIELD STUDIES IN SCIENCE II. Application of scientific principles in a metropolitan community to problems of health and sanitation; industrial and technological applications of science; scientific research on the

Niagara Frontier. Required of persons specializing in the teaching of general science; others with permission of instructor. Prerequisite: 18 sem. hrs. credit in biology, chemistry, and physics.

Credit: three semester hours.

Harman 12:30-1:50

SCI. 503s. ECOLOGY. Scientific nature study, including consideration of the relationships between living things and their physical environment; biological relationships between and within species; man's relationship with the natural environment. Lectures, discussions, readings.

Credit: three semester hours.

Urban 11:00-12:20

SCI. 504s. REGIONAL STUDY IN SCIENCE. Field work at Allegany State Park; out-of-doors science for the elementary school teacher; identification of wild flowers, trees, birds, insects, and other living things; relationships between living things and their environment; geology of the Park, and of western New York.

Credit: two semester hours.

Urban August 9-20

SCI. 518s. HUMAN BIOLOGY. Origin and development of the human species; human anatomy and physiology; reproduction, embryology, and life cycle; genetics of man; conservation of human resources; new problems in human biology. Required of all candidates for extension of certification to include the teaching of science in the early secondary school.

Credit: three semester hours.

Dupre 8:00-9:20

SCI. 527s. CURRENT RESEARCH IN SCIENCE. Study of current research in the various sciences; implications of such research on present and future living; implications of research in science for the early secondary school curriculum. Prerequisites: Sci. 101, 201-202, 203-204, 303-304, 518.

Credit: three semester hours.

Harman 11:00-12:20

SOCIAL STUDIES

Undergraduate

S.S. 241s. PRINCIPLES AND PROBLEMS OF INTERNATIONAL RELATIONS. Factors affecting national power; pressures in the making of national policy; international political system; conduct of foreign relations; international law in war and peace; problems of international organizations. Elementary Education sophomores must elect one course from Group B (S.S. 240, S.S. 241, or S.S. 242). Elective for sophomores, juniors, and seniors in all divisions.

Credit: three semester hours.

Mason 11:00-12:20

S.S. 302s. AMERICAN CIVILIZATION AND GOVERNMENT. Establishment of the American republic; growth of American civilization; relations between the government and the people; place of the nation in the modern world. Required of Elementary Education and Industrial Arts Education juniors. S.S. 301 is prerequisite to 302.

Credit: three semester hours.

Weaver 9:30-10:50

S.S. 312s. HISTORY AND GOVERNMENT OF NEW YORK STATE. Aboriginal background; development of the colony; establishment of the state; rise of political parties; past and present structure and problems of New York State government; economic and social growth to the present time. Elective for sophomores, juniors, and seniors.

Credit: three semester hours.

Brunger 8:00-9:20

S.S. 402s. SOCIOLOGY. Rise and development of culture; cultural change; social organization and social institutions. Required of Elementary Education seniors.

Credit: three semester hours.

Hollister 11:00-12:20

S.S. 440s. WORKSHOP IN METHODS AND MATERIALS IN SOCIAL STUDIES. Consideration of unit, topic, discussion, project, problem, and laboratory methods; teaching aids such as film strips, pictures, models and library reference materials; types of evaluation.

Credit: two semester hours.

Sexton August 10-21

Graduate

S.S. 501s. STUDIES IN TWENTIETH CENTURY EUROPEAN HISTORY. Study of a central theme selected by instructor and class, such as: modern political ideologies; international relations; individual country, region, or period. Prerequisites: 15 hours of Social Studies, including nine in European History, or consent of instructor.

Credit: three semester hours.

Mason 9:30-10:50

S.S. 513s. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES. Social roots of systems of thought; effects of ideas upon American society; continuing patterns of thought, such as Puritanism; liberalism, democracy; contributions of intellectual leaders. Prerequisites: 15 hours in Social Studies, including six in American History.

Credit: three semester hours.

Weaver 11:00-12:20

S.S. 520s. WORKSHOP IN METHODS AND MATERIALS IN SOCIAL STUDIES. Consideration of unit, topic, discussion, project, problem, and laboratory methods; teaching aids such as film strips, pictures, models and library reference materials; types of evaluation.

Credit: two semester hours.

Sexton August 10-21

S.S. 521s. CONTEMPORARY SOCIAL PROBLEMS. Problem areas of American society; sources of information; techniques of discovering and analyzing social problems; analysis of several major problems, selected in accordance with student needs and interests. Open to qualified seniors with consent of instructor.

Credit: three semester hours.

Hollister 8:00-9:20

EDUCATION

Undergraduate

EL.ED. 152s. HUMAN GROWTH AND DEVELOPMENT. Emotional development and learning; motivation; personal and social growth; effect of home, school, and community; personality development; evaluating human growth and development; directed observation. Required of all Elementary Education and Exceptional Children Education freshmen.

Credit: three semester hours.

Martorana 8:00-9:20

EL.ED. 308Cs. SEMINAR IN EARLY CHILDHOOD EDUCATION. Teaching the young child in nursery school, kindergarten, and primary grades; building a curriculum (activities and materials); communicating and planning with parents; evaluation procedures. Required of all Early Childhood Education students. Elective for other students by approval of appropriate division director.

Credit: three semester hours.

Jamison 11:00-12:20

EL.ED. 402s. SEMINAR IN ELEMENTARY SCHOOL TEACHING. Philosophic needs in elementary school teaching; teaching problems; research methods in solving educational problems. Required of all Elementary Education and Early Childhood Education seniors including those extending elementary certificate to teach in Early Secondary School. Prerequisites: for Elementary Education: EL.ED. 401; for Early Childhood Education: EL.ED. 401C; for Early Secondary School: EL.ED. 315, Ed. 316, Ed. 317, Ed. 318, or Ed. 319.

Credit: three semester hours.

Edwards 9:30-10:50

ED. 461s. SAFETY EDUCATION. A study of the areas responsible for most accidents in the home, the school, the shop, the playground and the community; water safety, traffic safety, fire safety and recreational safety; the materials and methods of teaching safety in the elementary and secondary schools; the integration and correlation of safety education in the school curriculum. Open to graduate and undergraduate students.

Credit: three semester hours.

Meyer 11:00-12:20

ED. 463s. DRIVER EDUCATION. Behind-the-wheel instruction of a trainee driver; traffic and pedestrian safety; psycho-physical testing; traffic law; accident statistics; accident prevention; traffic engineering; liability; insurance interpretation; effects of alcohol; theory and maintenance of automobile; co-operating agencies. Required for certification to teach Driver Education in New York State. Prerequisites: a good driving record (a licensed operator for at least two years); preparation for secondary school certification.

Credit: three semester hours.

Meyer 8:00-9:20

ED. 465s. AUDIO-VISUAL EDUCATION. Audio-visual materials in teaching; audio-visual equipment; selecting, securing, and using films and other materials; audio-visual programs in the school; teacher and pupil-produced materials; photography. Elective.

Credit: three semester hours.

Staff 12:30-1:50

EL.ED. 486s. METHODS AND MATERIALS IN THE ELEMENTARY SCHOOL. School curriculum in language arts, social studies, numbers, science; evaluation procedures. Open to graduate students and undergraduate experienced teachers.

Credit: three semester hours.

Barnett 11:00-12:20

EL.ED. 487s. TEACHING THE LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. Recent research in spelling, written communication, oral communication, reading, creative writing, listening skills; implications for creating learning experiences for children; developing a language arts program. Open to graduate students and undergraduate experienced teachers.

Credit: three semester hours.

Trahin 8:00-9:20

Graduate

EL.ED. 500s. WORKSHOP IN ELEMENTARY EDUCATION. Problems encountered in the elementary schools, selected by members of workshop; general seminar technique; observation in the Summer Campus School. Required of Elementary Education students for Master of Science degree. Enrollment limited.

Credit: six semester hours.

Hedden 8:30-12:30

EL.ED. 500As. WORKSHOP IN ELEMENTARY EDUCATION. Child development; elementary school methods and materials; preparation of an individual report; experience with children in the Campus School. Required of students in the Intensive Teacher Training Program.

Credit: eight semester hours.

Sugarman 8:00-4:00

EL.ED. 501s. SEMINAR IN ELEMENTARY EDUCATION. Research in elementary education; study of specific problems by individual students in their field of teaching. Required of Elementary Education candidates for the Master of Science degree.

Credit: three semester hours.

Wells 8:00-9:20

EL.ED. 503s. ORGANIZATION OF THE ELEMENTARY SCHOOL. Major concepts in Elementary Education; administration of the elementary school; the curriculum; grouping of pupils; the school plant; trends in school building design; co-curricular activities; pupil safety measures. Open to experienced teachers, principals, and supervisors.

Credit: three semester hours.

King 12:30-1:50

ED. 506s. PHILOSOPHY OF EDUCATION. Principles underlying educational practices; changing concepts of education; education in a democratic society; teaching procedures as determined by a democratic concept of education.

Credit: three semester hours.

Wells 11:00-12:20

ED. 507s. GENERAL SCHOOL ADMINISTRATION. Principles of school administration; historical beginnings; national, state, and local responsibilities for education; district, township, and county administrative units;

boards of education; school services: health, supervision, research, library, and attendance; teacher selection, salary, tenure, in-service education; school building programs.

Credit: three semester hours.

Milanovich 8:00-9:20

EL.ED. 512s. SEMINAR IN CHILD DEVELOPMENT. (For Intensive Teacher Training Program students who have taken EL.Ed. 500A.) Study of growth and development of elementary school children; understanding and guiding child growth in the mental, social, physical and emotional areas; individual and group work on specialized problems; field trips and observations in classrooms.

Credit: six semester hours.

Section A

Carroll 8:00-12:00

Section B

Guenther 8:00-12:00

EL.ED. 515s. SEMINAR IN EARLY CHILDHOOD EDUCATION. Curriculum development for children from three to eight; current problems and research; instructional materials and procedures; equipment; school, home, and community relationships; evaluating children's progress: "action research" on individual school problems. Open to graduate students and undergraduate experienced teachers.

Credit: three semester hours.

Jamison 11:00-12:20

EL.ED. 516s. METHODS AND MATERIALS IN THE ELEMENTARY SCHOOL. School curriculum in language arts, social studies, numbers, science; evaluation procedures. Open to graduate students and undergraduate experienced teachers.

Credit: three semester hours.

Barnett 9:30-10:50

EL.ED. 517s. TEACHING THE LANGUAGE ARTS IN THE ELEMENTARY SCHOOL. Recent research in spelling, written communication, oral communication, reading, creative writing, listening skills; implications for creating learning experiences for children; developing a language arts program. Open to graduate students and undergraduate experienced teachers.

Credit: three semester hours.

Trahin 9:30-10:50

EL.ED. 518s. STUDIES IN HUMAN GROWTH AND DEVELOPMENT. Research in child and adolescent growth; changing concepts in mental, emotional, social and personality growth; planning, executing and evaluating "action research". Open to graduate students and undergraduate experienced teachers.

Credit: three semester hours.

Blair, Martorana 9:30-12:20

EL.ED. 530s. PRINCIPLES OF SUPERVISION. Historical developments and changing concepts of supervision; principles of effective supervisory programs; types of administrative organization; maintaining staff morale. Open to experienced teachers, principals and supervisors.

Credit: three semester hours.

Milanovich 11:00-12:20

ED. 532s. EARLY SECONDARY EDUCATION. Origin and functions of early secondary education; curriculum patterns; guidance and exploratory programs; articulation between elementary school and senior high school; extra-curricular activities; evaluation in the early secondary school; research methods in solving problems listed above and others suggested by students. Required of all students preparing for early secondary school teaching. Prerequisite: baccalaureate degree.

Credit: three semester hours.

Sherrie 8:00-9:20

ED. 533s. WORKSHOP IN AUDIO-VISUAL EDUCATION. Basic audio-visual teaching methods; knowledges and skills in use of equipment; films, filmstrips, slides, and other materials; sources of material and equipment; audio-visual programs in the school; film libraries; ordering of materials; budgets and administration; evaluation of the program.

Credit: three semester hours.

Staff 12:30-1:50

ED. 536s. EARLY SECONDARY SCHOOL PROBLEMS AND METHODS. Objectives of early secondary school education; basic principles of learning and motivation; curriculum concepts; organizing learning experiences; providing for individual differences; teacher-pupil planning; selecting and organizing learning materials; audio-visual aids to learning; utilizing school, civic and community resources; status and practice of the core curriculum; nature and purposes of resource units; evaluating pupil growth. For students preparing for early secondary school teaching. Prerequisite: baccalaureate degree.

Credit: three semester hours.

Sherrie 11:00-12:20

ED. 539s. WORKSHOP IN THE TEACHING OF SPANISH IN THE ELEMENTARY GRADES. (See Foreign Language)

ED. 546s. THE TEACHING OF READING. Importance of reading in present day society, research in child development and learning and its implication for the teaching of reading; trends in the teaching of reading; developmental levels of reading in the content areas; methods and materials; evaluation and guidance of pupil growth in reading.

Credit: three semester hours.

Edwards 11:00-12:20

ED. 566s. SAFETY EDUCATION. A study of the areas responsible for most accidents in the home, the school, the shop, the playground and the community; water, traffic, fire, and recreational safety; teaching safety in the elementary and secondary school; integration and correlation of safety education in the school curriculum.

Credit: three semester hours.

Meyer 11:00-12:20

ED. 567s. DRIVER EDUCATION. Behind-the-wheel instruction of a trainee driver; traffic and pedestrian safety; psycho-physical testing; traffic law; accident statistics; accident prevention; traffic engineering; liability;

insurance interpretation; effects of alcohol; maintenance of an automobile; cooperating agencies; special research project. Required for certification to teach Driver Education in New York.

Credit: three semester hours.

Meyer 8:00-9:20

ED. 575s. RESEARCH TECHNIQUES. Various research techniques; collecting, classifying, evaluating data. Required of all candidates for Master of Science degree not writing a thesis, or completing a project.

Credit: three semester hours.

Section A

Hertzberg 9:30-10:50

Section B

Hertzberg 12:30-1:50

EXCEPTIONAL CHILDREN EDUCATION

Graduate

EX.ED. 520s. SPEECH CORRECTION FOR ELEMENTARY SCHOOL TEACHERS. Types and causes of speech defects and disorders found in elementary school children; methods of treatment of minor disorders by the classroom teacher; some phonetics and speech science; observation of children presenting various speech problems.

Credit: three semester hours.

Dickson 12:30-1:50

EX.ED. 539s. THE GIFTED CHILD. Study of the nature and needs of children who are gifted; examination of such provisions as acceleration, partial-segregation, enrichment, special classes; criteria for identifying; implications for classroom teacher. Classes meet double period on Monday and Wednesday, and single period on Thursday.

Credit: three semester hours.

Wagner 12:30-1:50

EX.ED. 541s. PSYCHOLOGY OF EXCEPTIONAL CHILDREN. Study of common tendencies found in fields of mental retardation and physical handicap; characteristics and implications of tendencies are developed with view to enhancing understandings in these fields.

Credit: three semester hours.

Bloustein 9:30-10:50

EX.ED. 556s. ADVANCED SEMINAR IN VOICE AND ARTICULATION PROBLEMS. Etiology and treatment of more severe voice and articulation problems. Cleft palate and esophageal speech. Investigation in current research.

Credit: three semester hours.

Dickson 11:00-12:20

EX.ED. 561s. OCCUPATIONAL EDUCATION FOR CHILDREN WITH MENTAL RETARDATION. Curriculum development, based upon a philosophy of occupational education and curricular cores, designed for special class teachers and administrators of classes of children with mental retardation and for teachers of regular classes who must provide adjustments for slow learning children.

Credit: three semester hours.

Mann 8:00-9:20

HOME ECONOMICS

Graduate

H.EC. 510s. PRACTICAL PROBLEMS OF HOUSING AND HOME FURNISHINGS. Problems related to housing and home furnishings; planning and constructing furnishings; field trips.

Credit: three semester hours.

Roudebush 8:00-9:20

H.EC. 516s. FAMILY CLOTHING. Purchase, selection, care, and construction of clothing for the family; management of time and money as they relate to clothing problems; trips, speakers, discussions, demonstrations, and work on problems for which the individual feels a definite need.

Credit: three semester hours.

Roudebush 9:30-10:50

H.EC. 523s. FIELD EXPERIENCE IN HOME ECONOMICS EDUCATION. Study of the function of home experiences; criteria for evaluating directed home experiences; relationship of homemaking teacher, parents and pupils; guidance and evaluation.

Credit: two semester hours.

Barkley Hours to be arranged

INDUSTRIAL ARTS

Undergraduate

I.A. 105s. MECHANICAL DRAWING. Basic drafting principles and conventions; sketching; work drawing, schematic and pictorial drawings; sections, auxiliaries and developments. Required of all Art Education freshmen. Classes meet everyday except Friday.

Credit: two semester hours.

Waagen 12:30-3:30

I.A. 303s. INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL. Child growth through construction activities; units of study and individual projects in various grade levels; industry and technology as part of the culture and environment of the child; recreational outlets for individual students; development of teaching aids. Required of all Elementary Education seniors.

Credit: three semester hours.

Russell 11:00-12:20
(additional hours to be arranged)

Graduate

I.A. 502s. FIELD STUDIES RELATED TO INDUSTRIAL ARTS EDUCATION. Individual and group studies of industrial activities on the Niagara Frontier; the woodworking and fabricating trades; metal industries; plastic and fibre products; graphic arts; electrical, ceramic, airplane and automotive manufacture; conferences with representatives of industry and various labor organizations.

Credit: three semester hours.

Fontana 8:00-9:20

I.A. 506s. SUPERVISION OF INDUSTRIAL ARTS. Problems and techniques concerning administration and supervision of elementary, secondary and adult programs in industrial arts education at the federal, state, and local levels.

Credit: three semester hours.

Ruley June 29-July 17

I.A. 508s. WELDING. Essentials of metallurgy for ferrous and non-ferrous metals as related to welding; proficiency in gas and electric arc welding, cutting, brazing, silver soldering and hard surfacing with special emphasis on certain non-ferrous metals, high carbon and special alloy steels, stainless and high chromium steels; inspecting and testing welds.

Credit: two semester hours.

Fontana June 18-June 29

I.A. 509s. HISTORY OF INDUSTRIAL ARTS. European antecedents; attempts to introduce technical instruction into American education; Russian Manual Training; Swedish Sloyd System of instruction; the Arts and Crafts Movement; the Manual Arts movement; growth of the vocational concept in America; Industrial Arts as pre-vocational training; the social-economic concept for Industrial Arts; Industrial Arts as the study of industry; Industrial Arts as the study of technology.

Credit: three semester hours.

Russell 9:30-10:50

I.A. 517As. ELECTRONICS. Electronics in the junior and senior high school industrial arts program; advanced electronic theory and practice in communications; development of instructional materials; demonstration equipment, projects and visual aids.

Credit: three semester hours.

Cook 11:00-12:20

I.A. 527s. TELEVISION TECHNOLOGY WORKSHOP. Circuit analysis of television technology and the use of specialized laboratory equipment. Open to graduate students who have successfully completed the advanced radio and electronics courses.

Credit: two semester hours.

Cook June 18-June 29

I.A. 528s. CURRICULUM DEVELOPMENT IN INDUSTRIAL ARTS. Philosophical foundation of Industrial Arts; current social, economic and technological conditions; curriculum patterns and curriculum controls; course of study construction; approaches to teaching; program structure and evaluation.

Credit: three semester hours.

Neuthardt July 20-August 7

Eight-Weeks (Accelerated) Program

A summer program restricted to accelerated undergraduates will last from June 29 through August 21. Regularly-enrolled degree candidates are assigned to these classes by the directors of two College divisions, Elementary Education and Industrial Arts, which have

established a sequence of courses that enable some students to complete their college requirements in less than four years. Registration for these courses is completed before the opening of the Summer Session; classes meet on Tuesday, June 30.

All other undergraduates should register in the six-weeks program. A few "non-accelerated" students may be admitted to the eight-weeks courses if their needs can not be met in the shorter session. Such students must have written permission from the Director of Summer Session.

The following courses will be offered:

Art 200	(Essentials of Art)
Art 300	(Essentials of Art)
Education 402	(Seminar in Elementary School Teaching)
English 250	(Types of British and American Literature I)
English 451	(Types of British and American Literature II)
General Studies 101	(Man and His Institutions: Social, Economic, and Political)
General Studies 104	(Ways of Knowing)
General Studies 105	(Effective Communication)
General Studies 201	(Family Living)
General Studies 203	(Man and His Natural Environment)
General Studies 301	(Ideas of Man and His World of Literature)
General Studies 302	(Ideas of Man and His World of Literature)
General Studies 401	(Ideas and Social Change in Western Civilization)
Geography 402	(General Geography II)
Health Education 204	(Personal and Community Health)
Health Education 402	(Health Protection)
Industrial Arts 101	(Electricity)
Industrial Arts 201	(Transportation)
Industrial Arts 202	(Metalwork)
Industrial Arts 301	(Graphic Arts)
Industrial Arts 302	(General Shop)
Industrial Arts 303	(Industrial Arts for the Elementary School)
Industrial Arts 311	(Principles and Practices of Industrial Arts)
Industrial Arts 312	(Principles and Practices of Industrial Arts)
Industrial Arts 406	(Ceramics)
Industrial Arts 407	(Textiles)
Mathematics 210	(Elements of Mathematics)

APPLICATION FOR PERMIT TO REGISTER FOR NEW UNDERGRADUATE STUDENTS

Any student who intends to register for undergraduate courses who has not previously attended this college must submit this form to receive a Permit to Register. Return this form to the Director of Summer Session, College for Teachers, Buffalo 22, New York.

Name
(Mr.) (Mrs.) (Miss)

Address

Do you intend to be admitted as a full-time Student in September 1959?

.... Yes No

Have you ever attended any College or University? Yes No

Please give name(s) of College(s) attended.

.....
.....

Please list the course or courses for which you are planning to register. This list may be changed by you on the day of registration.

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APPLICATION FOR PERMIT TO REGISTER FOR NEW GRADUATE STUDENTS

Any student who intends to register for graduate courses who has not been previously enrolled in the Graduate Division of this college must submit this form. Mail this form to the Director of Graduate Division, College for Teachers, Buffalo 22, New York.

Name
(Mr.) (Mrs.) (Miss)

Address

What degree do you hold? Year in which degree was granted

Name of College or University granting degree

Do you intend to earn a Master's degree at this college Yes No

Please list the course or courses for which you are planning to register. This list may be changed by you on the day of registration.

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PERIODICALS DEPARTMENT
EDWARD H. BUTLER LIBRARY
STATE UNIVERSITY COLLEGE
1300 ELWOOD AVENUE
BUFFALO, N. Y. 14222

APPLICATION FOR PERMIT TO REGISTER FOR NEW UNDERGRADUATE STUDENTS

This student who intends to register for undergraduate courses who has not previously attended this college must submit this form to receive a Permit to Register. Submit this form to the Director of Summer Session, College for Teachers, Buffalo 22, New York.

Name (Mr.) (Mrs.) (Miss)

Mailing Address

Telephone:

Do you have a physical handicap which requires that you have a room on the first floor? Yes No

Have you ever attended any College or University? Yes No

What college(s) or university(ies) did you attend?

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APPLICATION FOR RESIDENCE HALLS

1959 Summer Session

Name (Mr.) (Mrs.) (Miss)

Mailing Address

Telephone:

Please check the following:

.... Graduate Student Undergraduate Student

.... Double Room \$6.50 a week Single Room \$9.00 a week Linen Rental Service Yes No

.... Do you have a physical handicap which requires that you have a room on the first floor? Yes No

Date of Birth:

Roommate preference if any:

Dates that you are planning to attend Summer Session:

..... Six weeks Sessions June 29-August 7

..... Workshop in Human Growth and Development July 20-August 7

..... Post Session August 10-August 21

Please complete this application and mail to:

Director of Summer Session

College for Teachers

Buffalo 22, New York

PERIODICALS DEPARTMENT
EDWARD H. BUTLER JR.
STATE UNIVERSITY COL.
1300 ELWOOD AVENUE
BUFFALO, N. Y. 14222

STATE UNIVERSITY OF NEW YORK

Central Administrative Office: Albany 1, N. Y.

LIBERAL ARTS COLLEGE

Harpur College at Endicott

MEDICAL COLLEGES

State University Downstate Medical Center in New York City
State University Upstate Medical Center in Syracuse

TEACHERS COLLEGES

State University College for Teachers at Albany
State University Teachers College at Brockport
State University College for Teachers at Buffalo
State University Teachers College at Cortland
State University Teachers College at Fredonia
State University Teachers College at Geneseo
State University Teachers College at New Paltz
State University Teachers College at Oneonta
State University Teachers College at Oswego
State University Teachers College at Plattsburgh
State University Teachers College at Potsdam

OTHER PROFESSIONAL COLLEGES

State University College of Forestry at Syracuse University
State University Maritime College at Fort Schuyler
State University College of Ceramics at Alfred University
State University College on Long Island at Oyster Bay
New York State College of Agriculture at Cornell University
New York State College of Home Economics at Cornell University
New York State School of Industrial and Labor Relations at Cornell University
New York State Veterinary College at Cornell University

AGRICULTURAL AND TECHNICAL INSTITUTES

State University Agricultural and Technical Institute at Alfred
State University Agricultural and Technical Institute at Canton
State University Agricultural and Technical Institute at Cobleskill
State University Agricultural and Technical Institute at Delhi
State University Agricultural and Technical Institute at Farmingdale
State University Agricultural and Technical Institute at Morrisville

COMMUNITY COLLEGES

(Locally-sponsored two-year colleges under the program of State University)

Auburn Community College at Auburn
Bronx Community College at New York City
Broome Technical Community College at Binghamton
Corning Community College at Corning
Dutchess Community College at Poughkeepsie
Erie County Technical Institute at Buffalo
Fashion Institute of Technology at New York City
Hudson Valley Technical Institute at Troy
Jamestown Community College at Jamestown
Mohawk Valley Technical Institute at Utica
New York City Community College of Applied Arts and Sciences
Orange County Community College at Middletown
Staten Island Community College at New York City
Westchester Community College at Valhalla

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